# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-255078
(43)Date of publication of application : 30.09.1997

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(51)Int.Cl.
B65D 85/86
B65D 6/00
G03F 1/14
// B65H 3/46

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(21)Application number : 08-094691
(22)Date of filing : 26.03.1996

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(72)Inventor : MATSUMOTO TAKESHI

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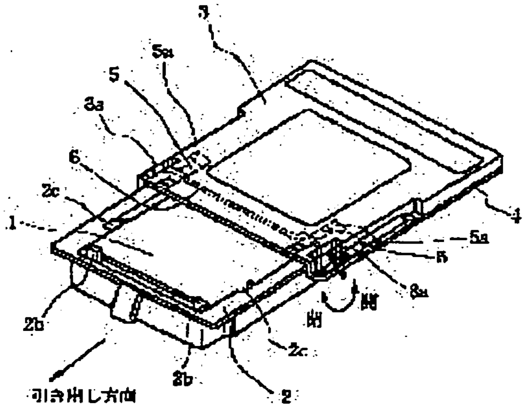
## (54) PLATELIKE ARTICLE STORING CONTAINER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide anti-static properties without forming a new dust generating factor.

SOLUTION: This storing container is constituted of a bottom tray 2 with a holding part for holding horizontally a plate-like article 1 such as a reticle, a top lid 3 being arranged so as to provide a gap above the top face of the plate-like article 1 and forming a storing room for the plate-like article 1, a slide plate 4 being supported by this top lid 3 and supporting the bottom tray 2 so as to be drawn and inserted in the drawing direction, an elastic plate 5 being supported by the top lid 3 and pressing down elastically the plate-like article to the holding part by being energized downward in the gap and furthermore becoming a locking mechanism for preventing the bottom tray from being drawn out, and an opening/closing lever being supported rotatably by the top lid and generating the effect by energizing downward the elastic plate 5 when it is rotated from an opening position being separated along the drawing direction to a closing position. In this case, the top lid and the whole or a specified part in the bottom tray are constituted of a polymer alloy provided with electrical conductivity by compatibilizing a hydrophilic polymer with a base resin and in addition, two-color molding is performed by inserting a member molded with a different kind of material into a part where sliding between the top lid and the bottom tray is generated.



## LEGAL STATUS

| | |
|---|---|
| [Date of request for examination] | 25.08.1998 |
| [Date of sending the examiner's decision of rejection] | |
| [Kind of final disposal of application other than the examiner's decision of rejection or application converted registration] | |
| [Date of final disposal for application] | |
| [Patent number] | 3014640 |
| [Date of registration] | 17.12.1999 |
| [Number of appeal against examiner's decision of rejection] | |
| [Date of requesting appeal against examiner's decision of rejection] | |
| [Date of extinction of right] | |

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(19)日本国特許庁（ＪＰ）　(12) **公開特許公報**（Ａ）　(11)特許出願公開番号

**特開平9－255078**

(43)公開日　平成９年(1997)９月30日

| (51)Int.Cl.$^6$ | 識別記号 | 庁内整理番号 | ＦＩ | 技術表示箇所 |
|---|---|---|---|---|
| Ｂ６５Ｄ　85/86 |  | 0333－3E | Ｂ６５Ｄ　85/38 | Ｒ |
| 6/00 |  |  | 6/00 |  |
| Ｇ０３Ｆ　1/14 |  |  | Ｇ０３Ｆ　1/14 | Ｍ |
| // Ｂ６５Ｈ　3/46 | ３２０ |  | Ｂ６５Ｈ　3/46 | ３２０ |

審査請求　未請求　請求項の数２　ＦＤ　（全　４　頁）

(21)出願番号　特願平8－94691

(22)出願日　平成８年(1996)３月26日

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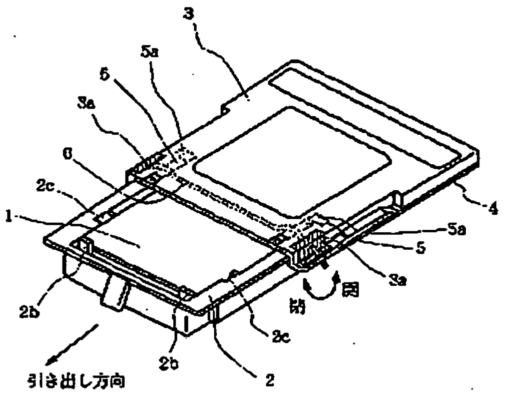
# (54)【発明の名称】　板状物収納容器

(57)【要約】

【課題】　新しい発塵の要因を作ることなく、帯電防止性を付与する。

【解決手段】　レチクル等の板状物１を水平に保持する保持部を有する下皿２と，前記板状物の上面に空隙を設けるよう配置され、該板状物の収納室を形成する上蓋３と，この上蓋３に支持され前記下皿を引き出し方向に沿って引き出しおよび挿入可能に支持するスライド板４と，前記上蓋に支持され前記空隙内で，下方に付勢されることにより前記板状物を前記保持部に対して弾性的に押さえつけ、さらに下皿引き出し防止のロック機構となる弾性板５と，前記上蓋に回動自在に支持され，前記引き出し方向に沿って離間している開位置から閉位置へ回動された際、前記弾性板を下方に付勢することにより前記効果を発生させる開閉レバーを有する収納容器において，前記上蓋と下皿内の全体または所定の部分を，ベースとなる樹脂に親水性高分子を相溶化させて導電性を持たせたポリマーアロイにより構成し，かつ、前記上蓋と前記下皿の摺動が発生する部分に、他種材料で成形した部材をインサートし、２色成形する。



【特許請求の範囲】

【請求項１】　板状物を水平に保持する保持部を有する下皿と、前記板状物の上面に空隙を設けるよう配置され、該板状物の収納室を形成する上蓋と、前記上蓋に支持され前記下皿を第１の方向とその逆方向に沿って挿入および引き出し自在に支持するスライド板と、前記上蓋に支持され前記空隙内で、下方に付勢されることにより、前記板状物を前記保持部に対して弾性的に押さえ付け、かつ下皿引き出し防止のロック機構となる弾性板と、前記上蓋に回動自在に支持され、前記第１の方向またはその逆方向に沿って離間している開位置から閉位置へ回動された際、前記弾性板を下方に付勢する開閉レバーとを有する収納容器において、
前記上蓋および下皿の全体または所定の部分を、ベースとなる樹脂中に親水性高分子を相溶化させ、導電性を持たせたポリマーアロイにより構成したことを特徴とする板状物収納容器。

【請求項２】　前記上蓋と前記下皿の摺動が発生する部分に、他種材料で成形した部材をインサートし、２色成形することを特徴とする請求項１記載の板状物収納容器。

【発明の詳細な説明】

【０００１】

【発明の属する技術分野】本発明は、ＬＳＩ等の半導体素子または液晶表示素子等を製造する際に使用されるフォトマスク、レチクルもしくはウエハまたはガラスプレート等の基板（板状物）を収納する板状物収納容器に関する。

【０００２】

【従来の技術】この種の収納容器としては、フォトマスクやレチクル等の基板（以下、レチクルと総称する）をその清浄度を十分保持した状態で収納し、かつレチクル使用時のレチクルの取出し、収納時の開閉動作によっても発塵を伴わないものが望まれる。従来、この種の容器は、蓋側部材（上蓋）に支持された開閉レバーが回動することにより、弾性板が下方へ付勢され、レチクル押さえ力を発生させていた。また、その際に弾性板先端が下皿凹部にはまり込むことにより容器開閉を防止するロック機構となっていた。また、容器自体に静電気に対する帯電防止の考慮は特にはなされておらず、帯電防止が要求される場合は、表面に帯電防止剤をスプレー等で塗布する程度であった。

【０００３】

【発明が解決しようとする課題】ところで、前記のような収納容器の開閉機構では、開閉レバーの回転軸受け部や開と閉の位置を離間するカム部等に摺動部分があり、それらの摺動部分から発塵が起こり容器内に収納されるレチクルに塵等が付着する可能性があるため、汎用樹脂のような比較的柔らかい樹脂を用いることはできなかった。また、従来の収納容器（カセット）は帯電防止の考慮がなされてなかったため、カセットに電荷が溜まることより、レチクル特にクロム（Ｃｒ）パターンの帯電を助長し、Ｃｒパターンの静電破壊を引き起こす一因となっていた。また、静電気対策のために帯電防止材料の使用を考えたとしても、上記摺動部分からの発塵問題が懸念され、一般的に柔らかく、摺動に弱い帯電防止性の樹脂を用いることはできなかった。

【０００４】本発明は、上述の問題点に鑑みてなされたもので、新しい発塵の要因を作ることなく、カセットに帯電防止性を持たせることを目的とする。

【０００５】

【課題を解決するための手段】前記の目的を解決するため、本発明による板状物収納容器は、例えば図１のようにレチクル等の板状物１を水平に保持する保持部（不図示）を有する下皿２と、前記板状物１の上面に空隙を設けるよう配置され、該板状物１の収納室を形成する上蓋３と、前記上蓋３に支持され前記下皿２を第１方向（引き出し方向）に沿って引き出しおよび挿入可能に支持するスライド板（スライダー）４と、前記上蓋３に支持され前記空隙内で、下方に付勢されることにより前記板状物１を前記保持部に対して弾性的に押さえつけ、さらに下皿引き出し防止のロック機構となる弾性板５と、前記上蓋に回動自在に支持され、前記引き出し方向に沿って離間している開位置から閉位置へ回動された際、前記弾性板５を下方に付勢することにより前記効果を発生させる開閉レバー６を有する収納容器において、前記上蓋３と下皿２内の全体または所定の部分を、ベースとなる樹脂に親水性高分子を相溶化させて導電性を持たせたポリマーアロイにより構成したことを特徴とする。本発明において、上蓋は透明な樹脂により形成することが望ましい。また上蓋摺動部分には摺動発塵の少ない樹脂で成形した部材をインサートし、２色成形を行うことが望ましい。

【０００６】

【作用】本発明の板状物収納容器によれば、上蓋と下皿内の全体または所定の部分を、ベースとなる樹脂例えば汎用の樹脂に、親水性高分子を混入しポリマーアロイ化させた樹脂を使用している。したがって、樹脂に導電性を付与する方法として一般的に行われている、カーボンや金属粉等の練り込みや、表面層への金属粉等の蒸着、界面活性剤の混入等のように、混入物の脱落による発塵や経時変化、洗浄による帯電防止性の劣化等の心配がない。また、摺動部分に摺動発塵の少ない樹脂を２色成形することにより、摺動部分でない部分に使用する材料の選択の幅が広がり上述のような比較的柔らかい帯電防止効果を持つ樹脂等をも採用することができる。

【０００７】

【実施例】以下、本発明による板状物収納容器の一実施例であるレチクル収納ケースについて、図面を参照し説明する。

【０００８】図１は、本実施例の収納ケースの開閉レバーが開状態で下皿が途中まで引き出されている状態の斜視図である。図中、１はレチクルまたはペリクル付レチクル．２はレチクル１を積載している下皿である。３は上蓋で下皿２と共に密閉状態を保つことによりレチクル１に異物等が付着することを防いでいる。４は前記上蓋に取り付けられ．前記下皿を引き出し方向に沿って引き出せかつその逆方向に沿って挿入できるように支持すると共に、補強の役割を果たすスライド板、５は弾性板、６は開閉レバーである。

【０００９】上蓋３は例えば本発明に係る収納容器を複数個格納する不図示の収納棚の内壁に固定される。弾性板５は上蓋３の左右内側にその一端を固定され支持される。開閉レバー６は上蓋３に支持される箇所を支点として図中矢印方向に回動し．閉の位置で前記弾性板５を下方向に付勢する。その際．弾性板５の先端Ｌ字部５ａが下皿凹部２ｃにはまり込み．下皿２が引き出し方向へ引き出されるのを防止するロック機構となる。また．レチクル１を下方向へ押し付ける力が発生することにより、レチクル１を固定しレチクルの上下左右方向の変位を防止する。また前記上蓋３中の摺動部分３ａには摺動発塵の少ない樹脂をインサートし２色成形を行う。図２は下皿２の詳細図である。図中２ａは下皿２の底面に設けられ．レチクルを平行に保つ凸起状のレチクル支持部、２ｂはレチクルの前後方向の変位を防止するレチクルストッパー部、２ｃは弾性板５が下方向に付勢されたときに弾性板先端５ａがはまり込み、下皿引き出しを防止する凹部である。

【００１０】次に図３、図４、図５にて開閉レバー６の作動を説明する。図３は開閉レバーを閉方向に回動したときの引き出し方向に対し直角方向から見た断面図である。図４は開閉レバーを開方向に回動したときの引き出し方向に対し直角方向から見た断面図である。図５は上方から見た図である。図３で、開閉レバーが閉方向に回動することにより、弾性板５は下方向に付勢され図５のように先端のＬ字部分５ａが下皿凹部２ｃにはまり込み．下皿２が引き出し方向に引き出されるのを防止する。図４で開閉レバーが開状態にあるときは、弾性板５は無負荷の状態であり上方に復帰して．下皿はフリーの状態であるので．図中向かって右方向の引き出し方向への変位が自由になる。実機上では、図６の位置から下皿をスライド板４から若干上方に平行変位させて上蓋３およびスライド板４と接触させずに引き出し方向に引き出す。

【００１１】次に本実施例では、図１の収納ケースに安定した帯電防止効果を持たせるために．ベース材中に親水性高分子を均一に相溶化させたポリマーアロイを用いる。樹脂に帯電防止効果を持たせるためには、一般的に帯電防止剤（界面活性剤）の練込や表面への塗布．カーボンブラックや金属粉などの練り込み．表面への金属粉

等の蒸着などが用いられているが、それらの方法では、混入物の脱落による発塵．および洗浄や経時変化による帯電防止性の劣化などが発生するため不適当であった。親水性高分子は空気中の水蒸気を内部に取り込み．電気を通す性質を持つようになるもので．ベースとなる樹脂の内部と表面に均一に相溶化しポリマーアロイ化するので．上記のような混入物の脱落による発塵や帯電防止効果の劣化の心配がなく、半永久的に帯電防止効果が持続する。

【００１２】動的状態での帯電防止に要求される表面固有抵抗値は、一般的に$10^{10}$～$10^{11}$Ω／ｃｍ程度と言われており、また、帯電圧減衰半減期や飽和帯電圧などに着目すると．表面固有抵抗値が$10^{11}$Ω／ｃｍ付近から材料特性が急激に悪化することが観察されている。したがって、十分な帯電防止効果を得るための表面固有抵抗値の上限は$10^{11}$Ω／ｃｍ程度であるといえる。

【００１３】前記ポリマーアロイは．内部に取り込んだ水分を保持することより．湿度が４０％以下の乾燥した環境でも、表面固有抵抗値は$10^{10}$～$10^{11}$Ω／ｃｍ程度であり、十分な帯電防止効果を示すことが観察されている。このような性質を持つ材料として、例えばＡＢＳ（アクリロニトリルブタジエンスチレン共重合体）をベース材にしたトヨラックパレルなどを用いる。さらに、上蓋３には、開閉機構の構造上前記のような摺動部分が発生することから、上蓋摺動部分３ａに摺動発塵の極めて少ない他種の樹脂をインサート成形することによる２色成形を行うことにより．摺動部分からの発塵を防止しレチクルへの異物の付着を防ぐ。このような摺動発塵の少ない樹脂としては、例えば、結晶性のスーパーエンプラであるＰＥＥＫ（ポリエーテルエーテルケトン）等を用いる。

【００１４】なお、上述の実施例はレチクルの収納ケースに本発明を適用したものであるが．本発明はレチクルのパターンが転写されるウエハやガラスプレートなどの収納ケースにも同様に適用できるものである。このように．本発明は上述実施例に限定されず．本発明の要旨を逸脱しない範囲で種々の構成を取り得る。

【００１５】

【発明の効果】以上のように本発明によれば、板状物収納容器において．摺動部分の発生する構造を選択せざる得ない場合、新しい発塵の要因を作ることなく．帯電防止性を持たせることができる。さらに．摺動部分に摺動発塵の少ない樹脂をインサートし２色成形することにより．摺動部分以外に用いられる材料の選択の幅が広がり．例えば帯電防止材料などの一般的に柔らかく摺動に弱い樹脂をも採用することが可能になる。

【図面の簡単な説明】

【図１】　本発明の一実施例に係るレチクルカセットにおいて下皿を上蓋から半分引き出した状態の斜視図である。

【図２】　図１における下皿の詳細図である。

【図３】　図１における開閉レバーを閉方向に回動したときの引き出し方向に対し直角方向から見た断面図である。

【図４】　図１における開閉レバーを開方向に回動したときの引き出し方向に対し直角方向から見た断面図である。

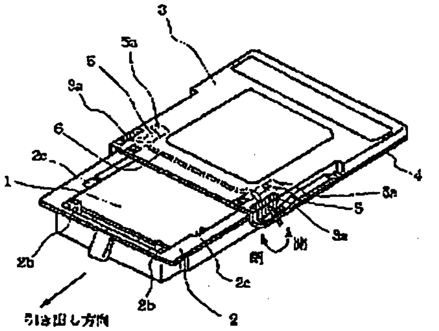
【図５】　図１のカセットのレチクル収納状態の上方から見た図である。 ＊

＊【図６】　図５の状態を引き出し方向から見た断面図である。

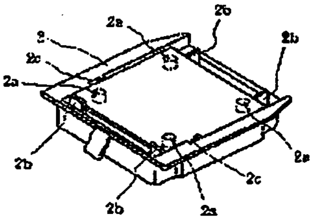
【符号の説明】

１：レチクル等の基板、２：下皿、２ａ：基板支持部、２ｂ：基板ストッパー部、２ｃ：凹部（弾性板先端はまり込み部）、３：上蓋、３ａ：摺動部（２色成形部）、４：スライド板、５：弾性板、５ａ：Ｌ字部、６：開閉レバー。

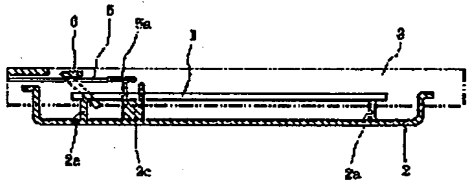
【図１】



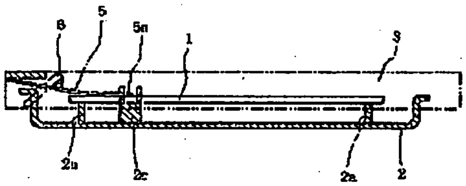
【図２】



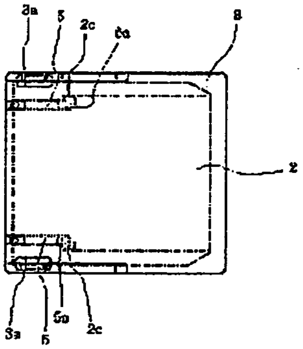
【図４】



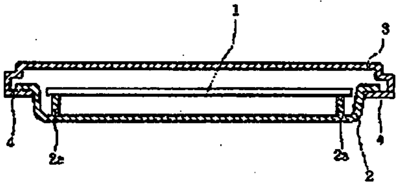
【図３】



【図５】



【図６】



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## CLAIMS

[Claim(s)]
[Claim 1] The lower pan which has the attaching part which holds a tabular object horizontally, and the top cover which is arranged so that an opening may be established in the top face of said tabular object, and forms the receipt room of this tabular object, It is supported by the slide plate which is supported by said top cover and supports said lower pan free [ insertion and a drawer ] along the 1st direction and its hard flow, and said top cover. In said opening The elastic plate which presses down said tabular object elastically to said attaching part, and serves as a lock device of lower pan drawer prevention by being energized caudad, In the stowage container which has the closing motion lever which energizes said elastic plate caudad when it rotates to a closed position from the open position which it was supported by said top cover free [ rotation ], and has been estranged along said 1st direction or its hard flow The tabular object stowage container characterized by constituting by the polymer alloy which was made to compatibility-ize a hydrophilic macromolecule in the resin which serves as the base in said top cover and the whole lower pan, or a predetermined part, and gave conductivity.
[Claim 2] The tabular object stowage container according to claim 1 which inserts the member fabricated with the other type ingredient to the part which sliding of said top cover and said lower pan generates, and is characterized by carrying out 2 color shaping.

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]
[0001]
[Field of the Invention] This invention relates to the tabular object stowage container which contains substrates (tabular object), such as a photo mask used in case a semiconductor device or liquid crystal display components, such as LSI, etc. are manufactured, a reticle, a wafer, or a glass plate.
[0002]
[Description of the Prior Art] As this kind of a stowage container, substrates (it is hereafter named a reticle generically), such as a photo mask and a reticle, are contained, where that cleanliness is held enough, and a thing without raising dust is desired by drawing of the reticle at the time of reticle use, and the switching action at the time of receipt. Conventionally, an elastic plate is energized below and this kind of container was generating the reticle presser-foot force, when the closing motion lever supported by lid flank material (top cover) rotated. Moreover, the elastic plate tip had become the lock device in which container closing motion was prevented, by getting into a lower pan crevice on that occasion. Moreover, when especially the consideration of electrification prevention to static electricity was not made by the container itself but electrification prevention was required of it, it was extent which applies an antistatic agent to a front face by a spray etc.
[0003]
[Problem(s) to be Solved by the Invention] By the way, at above breaker guards of a stowage container, there was a sliding part in the cam section which estranges the location of a closing motion lever the revolving-shaft receptacle section, open, and close, and since dust etc. may have adhered to the reticle which raising dust happens from those sliding parts, and is contained in a container, comparatively soft resin like general-purpose resin was not able to be used. Moreover, since consideration of electrification prevention was not made, the conventional stowage container (cassette) promoted electrification of a reticle, especially a chromium (Cr) pattern, and had become the cause which causes the electrostatic discharge of Cr pattern from a cassette being covered with a charge. Moreover, even if it considered use of an antistatic ingredient for the cure against static electricity, we were anxious about the raising dust problem from the above-mentioned sliding part, and generally it was soft and the resin of weak antistatic nature was not able to be used for sliding.
[0004] This invention aims at giving antistatic nature to a cassette, without having been made in view of the above-mentioned trouble, and making the factor of new raising dust.
[0005]
[Means for Solving the Problem] In order to solve the aforementioned purpose, the tabular object stowage container by this invention For example, the lower pan 2 which has the attaching part (un-illustrating) which holds the tabular objects 1, such as a reticle, horizontally like drawing 1 , The top cover 3 which is arranged so that an opening may be established in the top face of said tabular object 1, and forms the receipt room of this tabular object 1, It is supported by the slide plate (slider) 4 which is supported by said top cover 3 and supports said lower pan 2 possible [ a drawer and insertion ] along the 1st direction (the direction of a drawer), and said top cover 3. In said opening The elastic plate 5 which presses down said tabular object 1 elastically to said attaching part, and serves as a lock device of lower pan drawer prevention further by being energized caudad, In the stowage container which has the closing motion lever 6 which generates said effectiveness by energizing said elastic plate 5 caudad when it rotates to a closed position from the open position

which it was supported by said top cover free [ rotation ], and has been estranged along said direction of a drawer It is characterized by constituting by the polymer alloy which the resin which serves as the base in the whole inside of said top cover 3 and lower pan 2 or a predetermined part was made to compatibility-ize a hydrophilic macromolecule, and gave conductivity to it. As for a top cover, in this invention, forming with transparent resin is desirable. Moreover, it is desirable to insert the member fabricated by resin with little sliding raising dust to a top-cover sliding part, and to perform 2 color shaping.

[0006]

[Function] According to the tabular object stowage container of this invention, the resin which made it mix and polymer-alloy-ize a hydrophilic macromolecule, the resin, for example, the general-purpose resin, which serves as the base in the whole inside of a top cover and a lower pan or a predetermined part, is used. Therefore, there are no worries about the raising dust by omission of a contaminant, aging, degradation of the antistatic nature by washing, etc. like vacuum evaporationo of the scour lump of carbon, a metal powder, etc. currently generally performed as an approach of giving conductivity to resin, the metal powder to a surface layer, etc., and mixing of a surfactant. Moreover, the resin which the width of face of selection of the ingredient used for the part which is not a sliding part spreads, and has the above comparatively soft antistatic effectiveness is employable by fabricating two colors of resin with little sliding raising dust into a sliding part.

[0007]

[Example] Hereafter, the reticle receipt case which is one example of the tabular object stowage container by this invention is explained with reference to a drawing.

[0008] Drawing 1 is a perspective view in the condition that the lower pan is pulled out for the closing motion lever of the receipt case of this example to the middle in the state of open. It is the lower pan into which one loads a reticle or a reticle with a pellicle into among drawing, and 2 is loading the reticle 1. 3 has prevented a foreign matter etc. adhering to a reticle 1 by maintaining a sealing condition with the lower pan 2 by the top cover. While supporting so that 4 may be attached in said top cover, and said lower pan can be pulled out along the direction of a drawer and it can insert along the hard flow, as for the slide plate which plays the role of reinforcement, and 5, an elastic plate and 6 are closing motion levers.

[0009] A top cover 3 is fixed to the wall of the receipt shelf which is not illustrated [ which stores two or more stowage containers concerning this invention ]. An elastic plate 5 has the end fixed inside [ right-and-left ] a top cover 3, and is supported. It rotates in the drawing Nakaya mark direction by using as the supporting point the part supported by the top cover 3, and the closing motion lever 6 energizes said elastic plate 5 downward in a close location. Tip section [ of L characters ] 5a of an elastic plate 5 becomes the lock device in which it prevents that a ball lump and the lower pan 2 are pulled out in the direction of a drawer at lower pan crevice 2c, in that case. Moreover, when the force which forces a reticle 1 downward occurs, a reticle 1 is fixed and the variation rate of the direction of four directions of a reticle is prevented. Moreover, resin with little sliding raising dust is inserted to sliding partial 3a in said top cover 3, and 2 color shaping is performed. Drawing 2 is the detail drawing of the lower pan 2. It is the crevice where elastic plate tip 5a fits in in when an elastic plate 5 is energized downward, and the reticle supporter of the letter of a projection which 2in drawing a is prepared in the base of the lower pan 2, and keeps a reticle parallel, the reticle stopper section in which 2b prevents the variation rate of the cross direction of a reticle, and 2c prevent a lower pan drawer.

[0010] Next, drawing 3 , drawing 4 , and drawing 5 explain actuation of the closing motion lever 6. Drawing 3 is the sectional view which looked at the closing motion lever from the right angle to the direction of a drawer when rotating in the closed direction. Drawing 4 is the sectional view which looked at the closing motion lever from the right angle to the direction of a drawer when rotating in the open direction. Drawing 5 is drawing seen from the upper part. When a closing motion lever rotates in the closed direction by drawing 3 , an elastic plate 5 is energized downward and L character partial 5a at a tip prevents [ a ball lump and the lower pan 2 ] being pulled out in the direction of a drawer to lower pan crevice 2c like drawing 5 . When a closing motion lever is in an open condition by drawing 4 , an elastic plate 5 is in a no-load condition, and it returns up, and since a lower pan is in a free condition, the variation rate to the direction of a drawer of the direction of the right in drawing becomes free. On the system, it pulls out in the direction of a drawer, without making the upper part carry out parallel displacement of the location of drawing 6 to the lower pan a little from the slide plate 4, and making a top cover 3 and the slide plate 4 contact.

[0011] Next, in this example, in order to give the antistatic effectiveness stabilized in the receipt case of drawing 1 , the polymer alloy which made homogeneity compatibility-ize a hydrophilic macromolecule is used into base material. In order to give the antistatic effectiveness to resin, generally **** of an antistatic agent (surface active agent), spreading on a front face, carbon black, a metal powder, etc. scoured, and vacuum evaporationo of the metal powder to a front face etc. was used, but since the raising dust by omission of a contaminant and washing, degradation of the antistatic nature by aging, etc. occurred by those approaches, it was unsuitable. Since it compatibility-izes on the interior and the front face of resin which a hydrophilic giant molecule incorporates the steam in air inside, comes to have the property which conducts the electrical and electric equipment, and serve as the base and polymer-alloy-izes to homogeneity on them, there are no worries about degradation of the raising dust by omission of the above contaminants or the antistatic effectiveness, and the antistatic effectiveness continues semipermanently.

[0012] If the surface specific resistance value required of electrification prevention in the dynamic condition is generally called 1010 - 1012 ohm/cm extent and its attention is paid to a band electrical-potential-difference attenuation half-life, a saturated zone electrical potential difference, etc., it is observed that a material property gets worse [ a surface specific resistance value ] rapidly from near 1013ohm/cm. Therefore, it can be said that the upper limit of the surface specific resistance value for acquiring sufficient antistatic effectiveness is 1012 ohm/cm extent.

[0013] It is observed from said polymer alloy holding the moisture incorporated inside that even 40% or less of dry environment is 1010 - 1011 ohm/cm extent, and, as for a surface specific resistance value, humidity shows sufficient antistatic effectiveness for it. As an ingredient with such a property, TOYORAKKUPARERU which made ABS (acrylonitrile-butadiene-styrene copolymer) base material is used. Furthermore, since a sliding part like the account of the structure kickback of a breaker style occurs, by performing 2 color shaping by carrying out insert molding of the resin of very little other type of sliding raising dust to top-cover sliding partial 3a, the raising dust from a sliding part is prevented to a top cover 3, and adhesion of the foreign matter to a reticle is prevented to it. As resin with little such sliding raising dust, PEEK (polyether ether ketone) which is crystalline super engineering plastics is used, for example.

[0014] In addition, although an above-mentioned example applies this invention to the receipt case of a reticle, this invention is applicable also like the receipt cases where the pattern of a reticle is imprinted, such as a wafer and a glass plate. Thus, this invention is not limited to the above-mentioned example, but can take configurations various in the range which does not deviate from the summary of this invention.

[0015]

[Effect of the Invention] Antistatic nature can be given without making the factor of new raising dust according to this invention, as mentioned above, when the structure which a sliding part generates cannot be chosen in a tabular object stowage container. Furthermore, it enables the width of face of selection of the ingredient used in addition to a sliding part to, also adopt resin soft and weak to sliding generally [ breadth, for example, an antistatic ingredient etc., ] by inserting resin with little sliding raising dust to a sliding part, and fabricating two colors.

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## DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]
[Drawing 1] It is a perspective view in the condition of having carried out the one half drawer of the lower pan from the top cover in the reticle cassette concerning one example of this invention.
[Drawing 2] It is the detail drawing of the lower pan in drawing 1 .
[Drawing 3] It is the sectional view which looked at the closing motion lever in drawing 1 from the right angle to the direction of a drawer when rotating in the closed direction.
[Drawing 4] It is the sectional view which looked at the closing motion lever in drawing 1 from the right angle to the direction of a drawer when rotating in the open direction.
[Drawing 5] It is drawing seen from the upper part of the reticle receipt condition of the cassette of drawing 1 .
[Drawing 6] It is the sectional view which looked at the condition of drawing 5 from the drawer.
[Description of Notations]
1: Substrates, such as a reticle, the bottom pan of 2:, a 2a:substrate supporter, 2b:substrate stopper section, a 2c:crevice (an elastic plate tip is the ball lump section), 3:top cover, the 3a:sliding section (2 color shaping section), 4:slide plate, 5:elastic plate, the 5 a:L character sections, 6 : closing motion lever.

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## DRAWINGS

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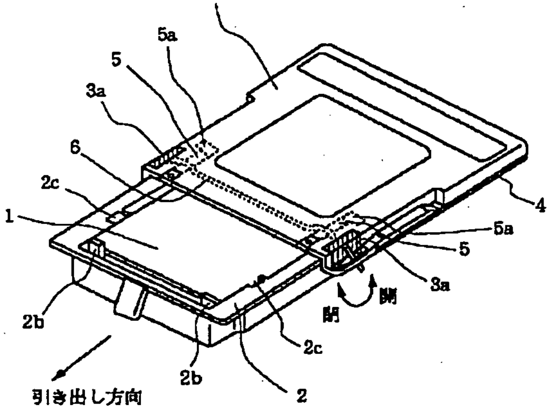
[Drawing 1]



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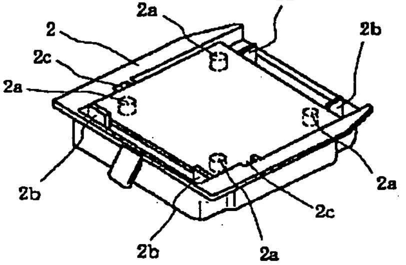

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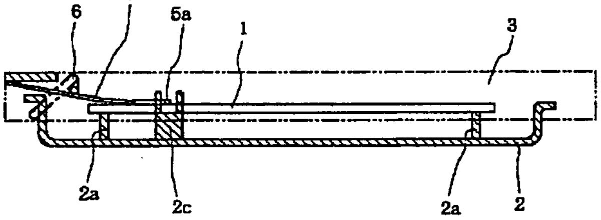

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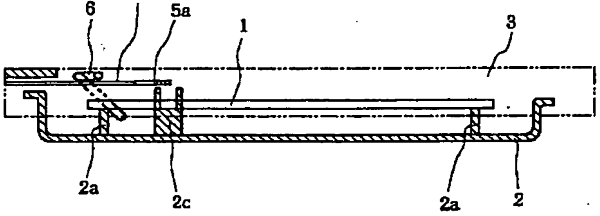

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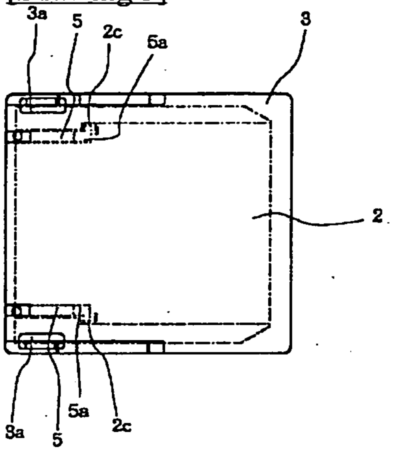

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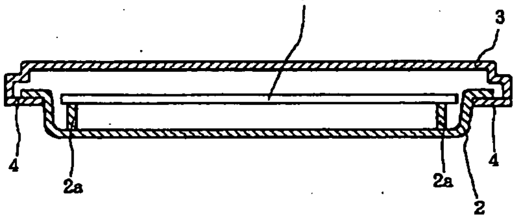

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